

1636

Ag



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Jonathan S. Bogan and Harvey F. Lodish  
Application No.: 10/058,820 Group Art Unit: 1636  
Filed: January 28, 2002 Examiner: Not Yet Assigned  
Confirmation No.: 2441  
Title: EXPRESSION CLONING METHOD

RECEIVED  
APR 02 2003  
TECH CENTER 1600/2900

CERTIFICATE OF MAILING	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Assistant Commissioner for Patents, P.O. Box 2327, Arlington, VA 22202	
on	3.26.03
Date	Signature
	Jenine Crump
Typed or printed name of person signing certificate	

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
P.O. Box 2327  
Arlington, VA 22202

Sir:

This Information Disclosure Statement is submitted:

☐ under 37 CFR 1.129(a), or

(First/Second submission after Final Rejection)

☒ under 37 CFR 1.97(b), or

(Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application; or before the mailing date of a first office action on the merits in a non-provisional application, including a CPA, or a Request for Continued Examination).

☐ under 37 CFR 1.97(c) together with either:

☐ a Statement under 37 CFR 1.97(e), as checked below, or

☐ a \$180.00 fee under 37 CFR 1.17(p), or

(After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)

☐ under 37 CFR 1.97(d) together with:

☐ a Statement under 37 CFR 1.97(e), as checked below, and

☐ a \$180.00 fee under 37 CFR 1.17(p), or

(Filed after final action or notice of allowance, whichever occurs first, but on or before payment of the issue fee)

☐ under 37 CFR 1.97(i):

Applicant requests that the IDS and cited reference(s) be placed in the application filewrapper.

(Filed after payment of issue fee)

Statement Under 37 CFR 1.97(e)

- ☐ Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- ☐ No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Statement Under 37 CFR 1.704(d) (Patent Term Adjustment)

Applies to original applications (other than design) filed on or after May 29, 2000

- ☐ Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.
- ☒ Enclosed herewith is form PTO-1449:
- ☒ Copies of the cited references are enclosed (**AB; AL; AZ11; AR12-AZ12; AR13-AZ13; AR14-AZ14; and AR15-AX15**).
- ☐ Copies of cited references are enclosed except those entered in prior application, U.S. Application No. [ ], to which priority under 35 U.S.C. 120 is claimed. [The earlier application contains copies of the cited references.]
- ☒ The listed references, **AL, AZ11, and AR12-AZ12**, were cited in the enclosed International Search Report in a counterpart foreign application.
- ☐ The "concise explanation" requirement (non-English references) for reference(s) [ ] under 37 CFR 1.98(a)(3) is satisfied by:
- ☐ the explanation provided on the attached sheet.
  - ☐ the explanation provided in the Specification.
  - ☐ submission of the enclosed International Search Report.
  - ☐ submission of the enclosed English-language version of a foreign Search Report and/or foreign Office Action.
  - ☐ the enclosed English language abstract.

[X] Applicant requests that the following non-published application(s) be considered:

Examiner's  
Initials

\_\_\_\_ U.S. Patent Application No. 60/047,433, by Jonathan S. Bogan and Harvey F. Lodish,  
filed May 27, 1997, Docket No.: 0399.1170-000 (WHI97-10p) (Expired)

\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]

\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]

\_\_\_\_\_  
Examiner

\_\_\_\_\_  
Date

[X] A copy of each above-cited application is enclosed.

[ ] A copy of each above-cited application, including the current claims, is enclosed, except those entered in prior application, U.S. Application No. [ ], to which priority under 35 U.S.C. 120 is claimed.

**The Examiner is requested to return a copy of the above list of pending applications indicating which references were considered with the next office communication.**

It is requested that the information disclosed herein be made of record in this application.

Method of payment:

[ ] A check for the fee noted above is enclosed, or the fee has been included in the check with the accompanying Reply. A copy of this Statement is enclosed.

[ ] Please charge Deposit Account 08-0380 in the amount of \$[ ]. A copy of this Statement is enclosed.

[X] Please charge any deficiency in fees and credit any overpayment to Deposit Account 08-0380.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By Anne J. Collins

Anne J. Collins

Registration No.: 40,564

Telephone: (978) 341-0036

Facsimile: (978) 341-0136

Concord, MA 01742-9133

Dated: March 26, 2003

PTO-1449 REPRODUCED		ATTORNEY DOCKET NO. 0399.2025-002		APPLICATION NO. 10/058,820				
<b>SUPPLEMENTAL INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b> March 19, 2003 (Use several sheets if necessary)				APPLICANT Jonathan S. Bogan				
FILING DATE January 28, 2002				CONFIRMATION NO. 2441	GROUP 1636			
U.S. PATENT DOCUMENTS								
EXA M- INER INI- TIAL		DOCUMENT NUMBER	ISSUE DATE / PUBLICATION DATE	NAME				
	AB	20020052012-A1	02-May-2002	Bogan, et al.				
	AC							
	AD							
	AE							
	AF							
	AG							
	AH							
	AI							
	AJ							
	AK							
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO	
	AL	WO 00/75188 A1	14 DEC 00	PCT				
	AM							
	AN							
	AO							
	AP							
	AQ							
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
	AZ11	Bartilson, Magdalena et al., "Differential Fluorescence Induction Reveals <i>Streptococcus Pneumoniae</i> Loci Regulated by Competence Stimulatory Peptide," <i>Mol. Microbio.</i> 39(1):126-135 (2001).						
	AR12	Becker, Karin et al., "Interaction of Fas(Apo-1/CD95) with Proteins Implicated in the Ubiquitination Pathway," <i>FEBS Letters</i> 412:102-106 (1997).						
	AS12	Bogan, Jonathan S. et al., "Insulin-Responsive Compartments Containing GLUT4 in 3T3-L1 and CHO Cells: Regulation by Amino Acid Concentrations," <i>Mol. and Cell. Biol.</i> 21(14):4785-4806 (2001).						
EXAMINER				DATE CONSIDERED				

PTO-1449 REPRODUCED

ATTORNEY DOCKET NO.  
0399.2025-002APPLICATION NO.  
10/058,820SECOND SUPPLEMENTAL INFORMATION DISCLOSURE  
CITATION IN AN APPLICATION

March 19, 2003

(Use several sheets if necessary)

MAR 31 2003

APPLICANT

Jonathan S. Bogan et al.

FILING DATE

January 28, 2002

CONFIRMATION NO.  
2441GROUP  
1636

## U.S. PATENT DOCUMENTS

EXA M- INER INI- TIAL	DOCUMENT NUMBER	ISSUE DATE / PUBLICATION DATE	NAME

RECEIVED

APR 02 2003

TECH CENTER 1600/2800

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AT12	Carim-Todd, Laura et al., "Identification and Characterization of UBXD1, a Novel UBX Domain-Containing Gene on Human Chromosome 19p13, and Its Mouse Ortholog," <i>Biochim. et Bioph. Acta</i> 1517:298-301 (2001).
AU12	Foster, Leonard J. et al., "A Functional Role for VAP-33 in Insulin-Stimulated GLUT4 Traffic," <i>Traffic</i> 2001 1:512-521 (2000).
AV12	Ladanyi, Marc et al., "The der(17)t(X;17)(p11;q25) of Human Alveolar Soft Part Sarcoma Fuses the TFE3 Transcription Factor Gene to ASPL, a Novel Gene at 17q25," <i>Oncogene</i> 20:48-57 (2001).
AW12	Nakayama, Jun et al., "Expression Cloning of a Human Polysialyltransferase that Forms the Polysialylated Neural Cell Adhesion Molecule Present in Embryonic Brain," <i>Proc. Natl. Acad. Sci. USA</i> 92:7031-7035 (1995).
AX12	Oritani, Kenji et al., "Identification of Stromal Cell Products that Interact with Pre-B Cells," <i>Journ. of Cell Biol.</i> 134(3):771-782 (1996).
AY12	Sasaki, Katsutoshi et al., "Expression Cloning of a G <sub>M3</sub> -specific $\alpha$ -2,8-Sialyltransferase (G <sub>D3</sub> Synthase)," <i>Journ. of Biol. Chem., Am. Soc. of Biol. Chem.</i> 269(22):15950-15956 (1994).
AZ12	Vollenweider, Peter et al., "The Small Guanosine Triphosphate-Binding Protein Rab4 is Involved in Insulin-Induced GLUT4 Translocation and Actin Filament Rearrangement in 3T3-L1 Cells," <i>Endocrinology</i> 138(11):4941-4949 (1997).

EXAMINER

DATE CONSIDERED

PTO-1449 REPRODUCED

ATTORNEY DOCKET NO.  
0399.2025-002APPLICATION NO.  
10/058,820SECOND SUPPLEMENTAL INFORMATION DISCLOSURE  
CITATION IN AN APPLICATION

March 19, 2003

(Use several sheets if necessary)

APPLICANT

Jonathan S. Bogan et al.

FILING DATE

January 28, 2002

CONFIRMATION NO.  
2441GROUP  
1636

MAR 31 2003

MAR 31 2003

## PATENT DOCUMENTS

EXAM- INER INI- TIAL	DOCUMENT NUMBER	ISSUE DATE / PUBLICATION DATE	NAME

RECEIVED

APR 02 2003

TECH CENTER 1600/2000

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AR13	Baldini, G., et al., "Cloning of a Rab3 isotype predominately expressed in adipocytes", <i>Proc. Natl. Acad. Sci. USA</i> , 89:5049-5052 (1992).
AS13	Brown, D., et al., "Cellular mechanisms of aquaporin trafficking", <i>Am. J. Physiol.</i> , 275(3):F328-331 (1998).
AT13	Caplan, M.J., "Gastric H <sup>+</sup> /K <sup>+</sup> -ATPase:targeting signals in the regulation of physiologic function", <i>Curr Opin. Cell Biol.</i> , 10(4):468-473 (1998).
AU13	Charron, M.J., et al. "A glucose transport protein expressed predominately in insulin responsive tissues", <i>Proc. Natl. Acad. Sci. USA</i> , 86(8):2535-2539 (1989).
AV13	Green, H. and Kehinde, O., "An Established Preadipose Cell Line and its Differentiation in Culture II. Factors Affecting the Adipose Conversion", <i>Cell</i> , 5:19-27 (1975).
AW13	Gustafson, C.E., et al., Data Submission, "Vasopressin regulated trafficking of a green fluorescent protein-aquaporin 2 chimera in LLC-PK1 cells", Accession No. PREV199800473658, (1998).
AX13	Inoue, T., et al., "SNAP-23 in rat kidney: colocalization with aquaprin-2 in collecting duct vesicles", <i>Am. J. Physiol.</i> , 275(5):F752-760 (1998).
AY13	Kao, A.W., et al., "Expression of a Dominant Interfering Dynamin Mutant in 3T3L1 Adipocytes Inhibits GLUT4 Endocytosis without Affecting Insulin Signaling", <i>J. Biol. Chem.</i> , 273(39):25450-25457 (1998).

EXAMINER

DATE CONSIDERED

PTO-1449 REPRODUCED		ATTORNEY DOCKET NO. 0399.2025-002		APPLICATION NO. 10/058,820	
SECOND SUPPLEMENTAL INFORMATION DISCLOSURE CITATION IN AN APPLICATION				APPLICANT Jonathan S. Bogan et al.	
March 19, 2003		MAR 31 2003		FILING DATE January 28, 2002	CONFIRMATION NO. 2441
(Use several sheets if necessary)				GROUP 1636	
U.S. PATENT DOCUMENTS					
EXAM- INER INI- TIAL		DOCUMENT NUMBER	ISSUE DATE / PUBLICATION DATE		<b>RECEIVED</b> NAME APR 02 2003
					TECH CENTER 1600/2900
FOREIGN PATENT DOCUMENTS					
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS SUB- CLASS TRANSLATION YES NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)					
	AZ13	Kinsella, T.M. and Nolan, G.P., "Episomal Vectors Rapidly and Stably Produce High-Titer Recombinant Retrovirus", <i>Hum. Gene. Ther.</i> , 7(12):1405-1413 (1996).			
	AR14	Knepper, M.A. and Inoue, T., "Regulation of aquaporin-2 water channel trafficking by vasopressin", <i>Curr. Opin. Cell Biol.</i> , 9(4):560-564 (1997).			
	AS14	Li, W.M. and McNeill, J.H., "Quantitative Methods for Measuring the Insulin-regulatable Glucose Transporter (GLUT4)", <i>J. Pharmacol. Toxicol. Methods</i> , 38(1):1-10 (1997).			
	AT14	Mandon, B., et al., "Syntaxin-4 Is Localized to the Apical Plasma Membrane of Rat Renal Collecting Duct Cells: Possible Role in Aquaporin-2 Trafficking", <i>J. Clin. Invest.</i> , 98(4):906-913 (1996).			
	AU14	Marshall, B.A., et al., "Domains That Confer Intracellular Sequestration of the Glut4 Glucose Transporter in <i>Xenopus</i> Oocytes", <i>J. Biol. Chem.</i> , 268(35):26193-26199 (1993).			
	AV14	Melvin, D.R., et al., "Analysis of Amino and Carboxy Terminal GLUT-4 Targeting Motifs in 3T3-L1 Adipocytes Using an Endosomal Ablation Technique", <i>Biochemistry</i> , 38(5):1456-1462 (1999).			
	AW14	Moyer, B.D., et al., Membrane Trafficking of the Cystic Fibrosis Gene Product, Cystic Fibrosis Transmembrane Conductance Regulator, Tagged with Green Fluorescent Protein in Madin-Darby Canine Kidney Cells", <i>J. Bio. Chem.</i> , 273(34):21759-21768 (1998).			
	AX14	Nielsen, S., et al., "Expression of VAMP2-like Protein in Kidney Collecting Duct Intracellular Vesicles", <i>J. Clin. Invest.</i> , 96:1834-1844 (1995).			
	AY14	Onishi, M., et al., "Applications of retrovirus-mediated expression cloning", <i>Exp. Hematol.</i> , 24(2):324-329 (1996).			
	AZ14	Rea, S. and James, D.E., "Moving GLUT4 The Biogenesis and Trafficking of GLUT4 Storage Vesicles", <i>Diabetes</i> , 46:1667-1677 (1997).			
EXAMINER			DATE CONSIDERED		

RECEIVED

APR 02 2003  
TECH CENTER 1600/2900

PTO-1449 REPRODUCED		ATTORNEY DOCKET NO. 0399.2025-002		APPLICATION NO. 10/058,820	
SECOND SUPPLEMENTAL INFORMATION DISCLOSURE CITATION IN AN APPLICATION		APPLICANT Jonathan S. Bogan et al.			
March 19, 2003		FILING DATE January 28, 2002		CONFIRMATION NO. 2441	
(Use several sheets if necessary)				GROUP 1636	
U.S. PATENT DOCUMENTS					
EXA M- INER INI- TIAL		DOCUMENT NUMBER	ISSUE DATE / PUBLICATION DATE		NAME
FOREIGN PATENT DOCUMENTS					
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS SUB- CLASS
					TRANSLATION YES NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)					
	AR15	Rubin, C.S., et al., "Development of Hormone Receptors and Hormonal Responsiveness in Vitro", <i>J. Biol. Chem.</i> , 253(20):7570-7578 (1978).			
	AS15	Smith, G.A., et al., "The Tandem Repeat Domain in the <i>Listeria monocytogenes</i> ActA Protein Controls and Rate of Actin-based Motility, the Percentage of Moving Bacteria, and the Localization of Vasodilator-stimulated Phosphoprotein and Profilin", <i>J. Cell Biol.</i> , 135(3):647-660 (1996).			
	AT15	Socolovsky, M., et al., "The Prolactin Receptor and Severely Truncated Erythropoietin Receptors Support Differentiation of Erythroid Progenitors", <i>J. Biol. Chem.</i> , 272(22):14009-14012 (1997).			
	AU15	Thorens, B. and Rot, J., "Intracellular targeting of GLUT4 in transfected insulinoma cells:evidence for association with constitutively recycling vesicles distinct from synaptophysin and insulin vesicles", <i>J. Cell Sci.</i> , 109:1311-1323 (1996).			
	AV15	Wang, Q., et al., "Protein Kinase B/Akt Participates in GLUT4 Translocation by Insulin in L6 Myoblasts", <i>Molecular and Cellular Biology</i> , 19(6):4008-4018 (1999).			
	AW15	Yang, J., et al., "Development of an Intracellular Pool of Glucose Transporters in 3T3-L1 Cells", <i>J. Biol. Chem.</i> , 267(15):10393-10399 (1992).			
	AX15	Yang, B. and Verkman, A.S., "Water and Glycerol Permeabilities of Aquaporins 1-5 and MIP Determined Quantitatively by Expression of Epitope-tagged Constructs in <i>Xenopus</i> Oocytes", <i>J. Biol. Chem.</i> , 272(26):16140-16146 (1997).			
	AY15				
	AZ15				
EXAMINER			DATE CONSIDERED		